

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/ 13538

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ B29C41/28, C08J5/18, G02B5/30 // B29K1:00, B29L7:00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ B29C41/28, C08J5/18, G02B5/30

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Japanese Utility Model Gazette 1926-2004, Japanese Publication or Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/65384 A1 (FUJI PHOTO FILM CO., LTD.)	1-4, 12
X	2000.11.02, page 75-77, Examples & EP 1182470 A1	13-15, 17-19
Y	WO 01/88574 A1 (FUJI PHOTO FILM CO., LTD.)	1-4, 12
X	2001.11.22, claims, examples 1, 10, 11, 14, 22, 45, 46 & EP 1300701 A1 & JP 2002-40487 A & JP 2002-71948 A & JP 2002-82226 A & JP 2002-139621 A & JP 2002-169023 A	13-15, 17-19



Further documents are listed in the continuation of Box C.



See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

22.01.2004

Date of mailing of the international search report

10.2.2004

Name and mailing address of the ISA/JP

Japan Patent Office

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Authorized officer

SHOGO OSHIMA

Telephone No. +81-3-3581-1101 Ext. 3430

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/13538

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 647671 A1 (TEIJIN LIMITED) 1995.04.12 claims, LINE 5-18 page 5 & US 5695694 A & JP 8-323785 A	1-4, 12
Y	JP 2001-113545 A (FUJI PHOTO FILM CO., LTD.) 2001.04.24 , claims, [0014] - [0018] (FAMILY NONE)	1-4, 12
Y	JP 11-58425 A (FUJI PHOTO FILM CO., LTD.) 1999.03.02 , claims, (FAMILY NONE)	1-4, 12
X	WO 02/46808 A1 (FUJI PHOTO FILM CO., LTD.)	8-19
Y	2002.06.13 exampl 1 & EP 1341007 A1 [0222] - [0224] & JP 2002-267840 A & JP 2002-267840 A	1-4
X	JP 2002-131549 A (FUJI PHOTO FILM CO., LTD.) 2002.05.09	8-19
Y	claims [0005] [0049] - [0057] (FAMILY NONE)	1-4
X	JP 2002-267844 A (FUJI PHOTO FILM CO., LTD.) 2002.09.18	8-19
Y	claims, [0058] - [0061] (FAMILY NONE)	1-4
X	JP 5-194788 A (FUJI PHOTO FILM CO., LTD.) 1993.08.03 claims, [162] - [174] (FAMILY NONE)	8-13
X	JP 2002-127168 A (FUJI PHOTO FILM CO., LTD.) 2002.05.08 claims, [0025] - [0026] (FAMILY NONE)	8-15
Y	WO 02/22720 A1 (FUJI PHOTO FILM CO., LTD.) 2002.03.21 claims, examples & AU 8622401 A	1-4, 8-19
EA	JP 2003-344655 A (FUJI PHOTO FILM CO., LTD.) 2003.12.03 claims (FAMILY NONE)	3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/ 13538

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
on an extra sheet:

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐

The additional search fees were accompanied by the applicant's protest.

☒

No protest accompanied the payment of additional search fees.

The "special technical features" of claim 1-5 relates to [A process for producing a cellulose acylate film, the process comprising: a step of preparing a cellulose acylate solution containing 0.01 to 20 parts by weight of an aromatic compound having at least two aromatic rings relative to 100 parts by weight of a cellulose acylate, a step of casting the cellulose acylate solution on a band or a drum; and a step of blowing a gas on the cast cellulose acylate solution at an effective wind speed of at least 10m/min during a first half of drying prior to peel-off.] while the "special technical features" of claim 5-7 relates to [A process for producing a cellulose acylate film, the process comprising: a step of preparing a cellulose acylate solution containing a cellulose acylate, a functional additive, a first organic solvent, and a second organic solvent, the solubilities of the functional additive in the first organic solvent and the second organic solvent being different; a step of casting the cellulose acylate solution on a band or a drum; and a step of drying the cast cellulose acylate solution so as to remove the organic solvents therefrom; wherein the solvent composition of mixed organic solvent in the cast cellulose acylate solution changes during the drying step, and when S1 (**)(solids weight concentration of the functional additive) is the solubility of the functional additive at ** C in the mixed organic solvent having a solvent composition where the proportion by weight of the first organic solvent, in which the solubility of the functional additive is the lowest, is the highest in the mixed organic solvent, and S0(*) (solids weight concentration of the functional additive) is the solubility of the functional additive at * C in the mixed organic solvent of the solvent composition in the step of preparing the cellulose acylate solution, then for the cellulose acylate solution that is cast, $0 < S0(*) - S1(**) < 12.5$ or $S1(**)/S0(*) > 0.5$]. And while the "special technical features" of claim 8-11 relates to [A process for producing a cellulose acylate film, the process comprising: a step of preparing a cellulose acylate solution containing a cellulose acylate (a), an additive (b) selected from the group consisting of a plasticizer, a retardation control agent, a degradation inhibitor, and a UV absorbing agent, and an organic solvent or a mixed organic solvent (c); a step of casting the cellulose acylate solution on a band or a drum; and a step of drying the cast cellulose acylate solution so as to remove the organic solvent therefrom; wherein for the cellulose acylate solution that is cast, the heat of solution ΔH_s of the additive (b) in the organic solvent or mixed organic solvent (c) is larger than the heat of solution ΔH_s thereof in a solution in which only the cellulose acylate (a) is dissolved, and $\Delta H_0 - \Delta H_s$ is 0.3 kcal/mol or more. A process for producing a cellulose acylate film, the process comprising: a step of preparing a cellulose acylate solution containing a cellulose acylate (a), an additive (b') selected from the group consisting of a retardation control agent, a degradation inhibitor, and a UV absorbing agent, a plasticizer (b1), and an organic solvent or a mixed organic solvent (c); a step of casting the cellulose acylate

solution on a band or a drum; and a step of drying the cast cellulose acylate solution so as to remove the organic solvent therefrom; wherein for the cellulose acylate solution that is cast, the heat of solution ΔH_0 of the additive (b') in the organic solvent or mixed organic solvent (c) is larger than 2.0 the heat of solution ΔH_0 thereof in a solution in which the plasticizer (b1) alone is dissolved, and ΔH_0 is 0.3 kcal/mol or more.]

There is no technical relationship among those inventions involving one or more of the same or corresponding technical features. Therefore, these three groups of inventions are not so linked as to form a single general inventive concept.